AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently amended) A G0 transgenic chimera bird <u>comprising</u>: which is introduced an exogenous antibody gene with a replication-defective retrovirus vector <u>introduced therein</u>, wherein the retrovirus vector is a vector derived from Moloney murine leukemia virus,

wherein the G0 transgenic chimera bird produces an antibody derived from a transgene in at least one of blood, albumen, and egg yolk, and

wherein the G0 transgenic chimera bird is formed by a method comprising: incubating a bird fertile egg, infecting an early embryo in the bird fertile egg after and exclusive of a blastodermal period immediately after the spawning with the replication-defective retrovirus vector, and then hatching the embryo.

- 2. (Original) The G0 transgenic chimera bird according to Claim 1, wherein a class of a constant region of the antibody is human IgG.
- 3. (Original) The G0 transgenic chimera bird according to Claim 1, wherein a subclass of a constant region of the antibody is human IgG1.
- 4. (Currently amended) The G0 transgenic chimera bird according to Claim 1, wherein <u>a</u> [[the]] constant region of the antibody is quail IgG, chicken IgG, or mouse IgG.
- 5. (Previously presented) The G0 transgenic chimera bird according to Claim 1, wherein the antibody gene is controlled by a constitutive promoter.
- 6. (Original) The G0 transgenic chimera bird according to Claim 5, wherein the constitutive promoter is chicken β-actin promoter.

7. (Cancelled)

- 8. (Previously presented) The G0 transgenic chimera bird according to Claim 1, wherein the retrovirus vector is a VSV-G pseudo type one.
- 9. (Previously presented) The G0 transgenic chimera bird according to Claim 1, wherein the bird is a chicken or quail.
- 10. (Previously presented) The G0 transgenic chimera bird according to Claim 1, wherein the antibody is a chimera antibody.
- 11. (Original) The G0 transgenic chimera bird according to Claim 10, which contains not less than $0.5 \mu g/ml$ of the antibody in blood.
- 12. (Original) The G0 transgenic chimera bird according to Claim 11, which contains not less than 5 μ g/ml of the antibody in blood.
- 13. (Original) The G0 transgenic chimera bird according to Claim 10, which contains not less than $0.1 \mu g/ml$ of the antibody in albumen.
- 14. (Original) The G0 transgenic chimera bird according to Claim 13, which contains not less than 1 μ g/ml of the antibody in albumen.
- 15. (Original) The G0 transgenic chimera bird according to Claim 10, which contains not less than $0.1 \mu g/ml$ of the antibody in egg yolk.
- 16. (Original) The G0 transgenic chimera bird according to Claim 15, which contains not less than 1 µg/ml of the antibody in egg yolk.
- 17. (Previously presented) The G0 transgenic chimera bird according to Claim 1, wherein the antibody is an scFv-Fc antibody.

- 18. (Original) The G0 transgenic chimera bird according to Claim 17, which contains not less than 20 μ g/ml of the antibody in blood.
- 19. (Original) The G0 transgenic chimera bird according to Claim 18, which contains not less than 2000 μg/ml of the antibody in blood.
- 20. (Original) The G0 transgenic chimera bird according to Claim 17, which contains not less than 5 μ g/ml of the antibody in albumen.
- 21. (Original) The G0 transgenic chimera bird according to Claim 20, which contains not less than 500 μ g/ml of the antibody in albumen.
- 22. (Original) The G0 transgenic chimera bird according to Claim 17, which contains not less than 5 μ g/ml of the antibody in egg yolk.
- 23. (Original) The G0 transgenic chimera bird according to Claim 22, which contains not less than $500 \mu g/ml$ of the antibody in egg yolk.
- 24. (Previously presented) A production method of an antibody which comprises producing the G0 transgenic chimera bird according to Claim 1, and recovering the antibody from blood and/or an egg of said G0 transgenic chimera bird.
- 25. (Currently amended) A production method of a G0 transgenic chimera bird which comprises incubating a bird fertile egg, infecting an early embryo after and exclusive of a blastodermal period immediately after the spawning with a replication-defective retrovirus vector, and then hatching the embryo, wherein the retrovirus vector is a vector derived from Moloney murine leukemia virus.
- 26. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 25, which comprises incubating a bird fertile egg, wherein infecting an early

embryo <u>is done</u> after the lapse of 24 hours or more from the start of the incubation with a replication-defective retrovirus vector, and then hatching the embryo.

- 27. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 25, which comprises incubating a bird fertile egg, and microinjecting a wherein the replication-defective retrovirus vector is microinjected to a heart or blood vessel formed in the early embryo.
- 28. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 25, which comprises incubating a bird fertile egg, and microinjecting a wherein the replication-defective retrovirus vector is microinjected to a heart or blood vessel formed in the early embryo formed after the lapse of 24 hours or more from the start of the incubation.
- 29. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 25, which comprises microinjecting a wherein the replication-defective retrovirus vector having [[the]] a titer of not less than 1 x 10⁷ cfu/ml is microinjected.
- 30. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 29, which comprises microinjecting a wherein the replication-defective retrovirus vector having [[the]] a titer of not less than 1 x 10⁸ cfu/ml is microinjected.
- 31. (Currently amended) The production method of a G0 transgenic chimera bird according to Claim 30, which comprises microinjecting a wherein the replication-defective retrovirus vector having [[the]] a titer of not less than 1 x 10⁹ cfu/ml is microinjected.

32. (Canceled)

33. (Previously presented) The production method of a G0 transgenic chimera bird according to Claim 25, wherein the retrovirus vector is a VSV-G pseudo type one.

- 34. (Previously presented) The production method of a G0 transgenic chimera bird according to Claim 25, wherein the bird is a chicken or quail.
- 35. (Previously presented) The production method of a G0 transgenic chimera bird according to Claim 25, wherein a gene sequence not derived from a retrovirus is contained in a transgene incorporated into a replication-defective retrovirus vector.
- 36. (Original) The production method of a G0 transgenic chimera bird according to Claim 35, wherein the gene sequence not derived from a retrovirus is a gene sequence controlled by chicken β-actin promoter.
- 37. (Previously presented) The production method of a G0 transgenic chimera bird according to Claim 35, wherein the gene sequence not derived from a retrovirus is a gene sequence coding for an antibody gene.
- 38. (Original) The production method of a G0 transgenic chimera bird according to Claim 37, wherein the antibody gene is a chimera antibody gene.
- 39. (Original) The production method of a G0 transgenic chimera bird according to Claim 37, wherein the antibody gene is an scFv-Fc antibody gene.
- 40. (Previously presented) The production method of a G0 transgenic chimera bird according to Claim 35, wherein the gene sequence not derived from a retrovirus is a gene sequence coding for a fusion protein gene.
- 41. (Previously presented) A G0 transgenic chimera bird which is produced by the method according to Claim 25.
- 42. (Currently amended) A production method of a transgenic bird, which comprises mating [[the]] <u>a</u> first G0 transgenic chimera bird produced by the method according to Claim 25 with <u>a mating type an allogeanic bird</u>, and then hatching the egg.

- 43. (Currently amended) The production method of a transgenic bird according to Claim 42, wherein the mating type allogeanic bird is [[the]] another G0 transgenic bird produced by the method according to Claim 25 or an offspring thereof.
- 44. (Currently amended) A G1 transgenic bird, which is obtainable by mating [[the]] <u>a</u> G0 transgenic bird produced by the method according to Claim 25 with <u>a mating type an</u> allogeanic bird, and then hatching the egg.
- 45. (Currently amended) The G1 transgenic bird according to Claim 44, wherein the mating type allogeanic bird is [[the]] another G0 transgenic bird produced by the method according to Claim 25 or an offspring thereof.
- 46. (Previously presented) A production method of a transgenic bird, which comprises further mating the G1 transgenic bird according to Claim 44, and then hatching the egg.
- 47. (Previously presented) A G2 transgenic bird or an offspring thereof, which is obtainable by further mating the G1 transgenic bird according to Claim 44, and then hatching the egg.
- 48. (Previously presented) A production method of a protein, which comprises extracting the objective protein from a somatic cell, blood or an egg of the transgenic bird produced by the method according to Claim 42.
- 49. (Previously presented) An egg laid by the G0 transgenic chimera bird according to Claim 41, which contains not less than 1 mg of a heterogeneous protein derived from a transgene.
- 50. (Previously presented) An egg laid by the G0 transgenic chimera bird according to Claim 41, which contains not less than 20 mg of a heterogeneous protein derived from a transgene.

- 51. (Previously presented) An egg laid by the G0 transgenic chimera bird according to Claim 41, which contains not less than 100 mg of a heterogeneous protein derived from a transgene.
- 52. (Previously presented) An egg laid by the G0 transgenic chimera bird according to Claim 41, which contains not less than 200 mg of a heterogeneous protein derived from a transgene.
- 53. (Previously presented) An egg laid by the G1 transgenic chimera bird according to Claim 44 or an offspring thereof, which contains not less than 1 mg of a heterogeneous protein derived from a transgene.
- 54. (Previously presented) An egg laid by the G1 transgenic bird according to Claim 44 or an offspring thereof, which contains not less than 20 mg of a heterogeneous protein derived from a transgene.
- 55. (Previously presented) An egg laid by the G1 transgenic bird according to Claim 44 or an offspring thereof, which contains not less than 100 mg of a heterogeneous protein derived from a transgene.
- 56. (Previously presented) An egg laid by the G1 transgenic bird according to Claim 44 or an offspring thereof, which contains not less than 200 mg of a heterogeneous protein derived from a transgene.
 - 57. (Cancelled)
 - 58. (Cancelled)
 - 59. (Cancelled)